APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Matejac, R.
DISARRANGEMENT IN THE SILVER HALIDES
[PT. 1] 28 Feb 63, 20p.
Order from SLA $1.60 63-14096

Trans. of Photographische Korrespondez (Austria)
1957, v. 93, no. 2, p. 17-25.

DESCRIPTORS: *Silver compounds, *Halides, *Structural properties, *Photographic emulsions, Crystal structure, Diffusion, Electrical conductance, Photographic chemicals.

This is a survey of the characteristic signs of disarrangement in the silver halide crystals.

(Materials--Photographic, TT, v. 10, no. 4)

63-14096

I. Matejac, R.

Office of Technical Services

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Application of Optical Brightening Agents in the Photographic Industry, by L. Roosens, 33 p.

AUSTRIAN, per, Phot Korrespondenz, 1958, Vol XCIV, No 1, pp 31-6 and No 2, pp 19-26.

SLA 59-15988

Sci
Dec 59
Vol 2, No 6

103955

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Reaction of Ripening and Retarding Substances Upon Crystal Foils of Silver Bromide, by I. Hayn, G. Langhammer, H. Staude, 25 pp.

GERMAN, per, Photographische Korrespondenz, Vol CXIV, No 5, 1958, pp 69-73 and No 6, pp 83-91.

SLA 59-15355

Sci
Jan 60
Vol 2, No 7

104673

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Frieser, H.
INVESTIGATIONS ON THE REPRODUCTION OF SMALL DETAILS BY MEANS OF PHOTOGRAPHIC REPRODUCTION OF SMALL DETAILS IN THE PRINTING PROCESS. PART 1. THEORETICAL. [1960] 26 p.
Order from SLA mi$2.70, ph$4.80 60-16559

Trans. of Phs[ographische] Korr[espondenz] (Austria) 1958, v. 94, no. 8, p. 115-121, and no. 9, p. 131-137.

Consideration is given to the printing of a linear sine pattern, the printing of lines and slits, the line pattern, and the nature of transmittance and the effective printing intensity at an incident-lighted edge.

(Materials--Photographic, TT, v. 5, no. 3)

60-16559

1. Photographic film--Processing
I. Frieser, H.

142,909

Office of Technical Services

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Measurement of Color Reproduction Characteristics of Miniature-Type Color Films, by B. Rosch, 13 p.

Ger/Ger, yar, Phot Korr, 1959, Vol XCV, No 1, pp 7-13, No 2, pp 28-30.

SLA 59-17722

Sci
Feb 60
Vol 2, No 9

107/103

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Measurement of Color Reproduction Characteristics of Miniature-Type Color Films, by G. Roech, 13 p.

[redacted] ger, Phot Korr, 1959, Vol XCV, No 1, pp 7-13, No 2, pp 28-30.

SLA 59-17722

Sci
Feb 60
Vol 2, No 9

102, 103

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Spectral Transmission of Photographic Objectives and its Influence on Color Reproduction in Agfacolor-Reversal Film for Daylight, by R. Gunther, W. Reitzenstein, 16 p.

G-Europe

[redacted], part, Photographische Korrespondenz, 1959, Vol XCV, pp 35-42.

GLA 59-20098

109124

Sci.

Feb 60 Vol 2, No 10

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

About the Mechanism and the Kinetics of Oxidative Color Coupling, by J. Eggers, 34 pp.

GERMAN, per, Photographische Korrespondenz, Vol XCV, No 8, pp 115-124, No 9, pp 131-134, 1959.

SLA 60-16560

Sci

May 62

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Friesser, H.
INVESTIGATIONS OF REPRODUCTION OF FINE DETAILS BY PHOTOGRAPHIC EMULSIONS (REPRODUCTION OF FINE DETAILS IN THE PRINTING STAGE) II: EXPERIMENTAL PART. 15p 5refs.
Order from: SLA $1.60 TT-64-16664

Trans. of Photographische Korrespondenz (Austria) 1958, v. 94, no. 10, p. 147-153.

(Materials--Photographic, TT, v. 12, no. 4)

TT-64-16664

I. Friesser, H.
II. Title: Reproduction ...

Office of Technical Services

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

On the Mechanism of Combined Fixing and Developing, by H. Eggenschwiller, W. Jaenicke, 21 pp.

GERMAN, per, Photographische Korrespondenz, Vol XCV, No 10, 1959, pp 149-159.

SLA 60-18481

203,557

Sci
Jul 62

E Vol 4, No 12

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

On the Mechanism of Combined Fixing and Developing, by E. Eggenschwiller, W. Jaenicke, 21 pp.

GERMAN, per, Photographische Korrespondenz, Vol XCV, No 10, 1959, pp 149-159.

SLA 60-18481

Sci
Jul 62

E Vol 4, No 12

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Problems and Results of the Film Dosimetry of Ionising Radiations, by K. Becker, 52 pp.

GERMAN, per, Photographische Korrespondenz, Vol XCV, No 6-8, 1960, pp 83-88, 99-104, 115-125. 9099888

AEC MP Tr-868

Sci - Phys
May 62

196,775

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

About the Mechanism and the Kinetics of Oxidative Color Coupling, by J. Eggers, 34 pp.

GERMAN, per, Photographische Korrespondenz, Vol 98 XCV, No 8, pp 115-124, No 9, pp 131-134, 1959.

SLA 60-16560

196,849

Sci

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Eggenschwiller, H. and Jaenicke, W.
IMAGE REVERSAL IN CONJUNCTION WITH FIXATION DEVELOPMENT. [1960] 13p. 8 refs.
Order from OTS mf$2.40, ph$3.30 60-18482

Trans[lation from Photographische] Korr[espondenz] (Austria) 1959, v. 95, no. 11, p. 165-171.

An interpretation was attempted of the image reversal effect occurring after exposure to light during fixation development of photographic emulsion, and an investigation was carried out on (1) the influence of the fixing agent and its concentration, (2) the duration and type of pretreatment, (3) the intensity and duration of secondary exposure; and (4) the effect of thickness of the emulsion coating. The procedure included pre-exposure, pretreatment, intermediate bath, second exposure with subsequent treatment and the substitution of separate development and fixation for combined fixation and development. Reversal was produced by alternating pure chemical development with fixation, and (Materials--Photographic, TT, v. 5, no. 5) (over)

60-18482

1. Photographic emulsions--Photochemical reactions
2. Photographic film--Processing
3. Title: Sabattier effect
I. Eggenschwiller, H.
II. Jaenicke, W.

146,952

Office of Technical Services

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Spectral Sensitivity of Reversal Color Films
by G. Hansen, Anne Marie Richter, 13 pp.

German, per, Photographische Korrespondenz,
Vol XCV No 1, pp 3-9.

PLA 60-16955

198,016

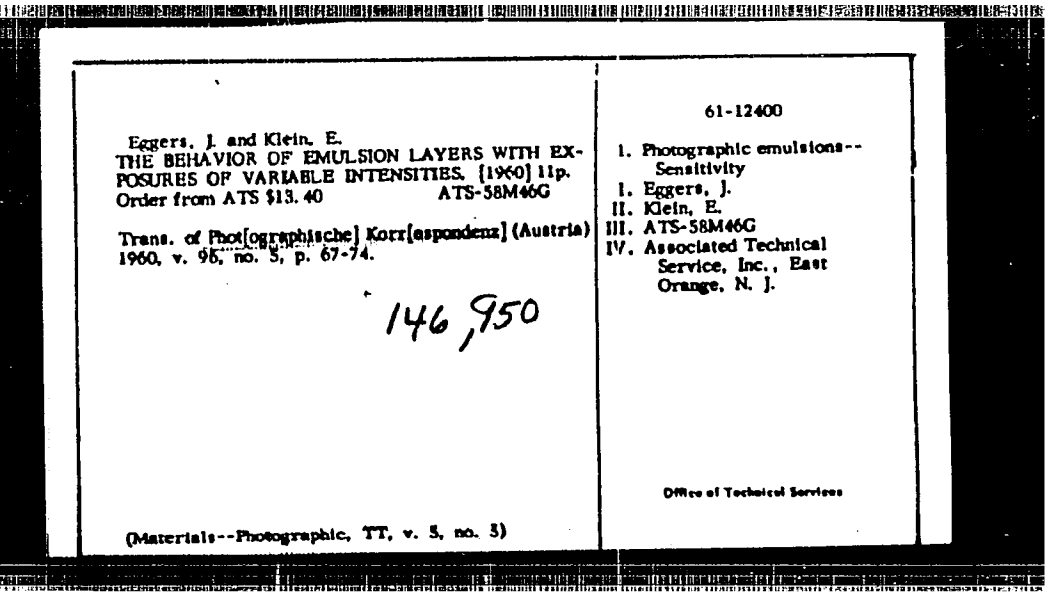
Sci

May 62

Vol 4, No 8

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3



Eggers, J. and Klein, E.
THE BEHAVIOR OF EMULSION LAYERS WITH EXPOSURES OF VARIABLE INTENSITIES. [1960] 11p.
Order from ATS $13.40 ATS-58M46G

Trans. of Phot[ographische] Korr[espondenz] (Austria) 1960, v. 96, no. 5, p. 67-74.

146,950

(Materials--Photographic, TT, v. 5, no. 3)

61-12400

1. Photographic emulsions--Sensitivity
I. Eggers, J.
II. Klein, E.
III. ATS-58M46G
IV. Associated Technical Service, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Pro.lems and Results of the Film Dosimetry of Ionizing Radiations, by K. Becker,

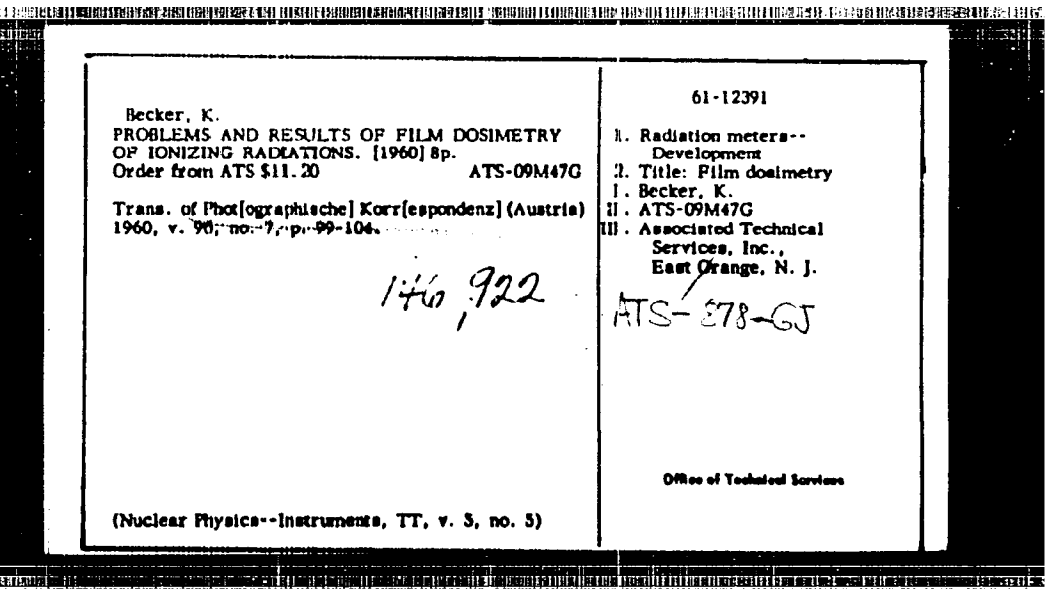
GERMAN, per, Photographische Korrespondenz, Vol XCVI, pp 83-88, 99-104, 115-125. (1960)

*AERE, Harwell

Sci - Phys
3 Jan 61
List 47

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3



Becker, K.
PROBLEMS AND RESULTS OF FILM DOSIMETRY OF IONIZING RADIATIONS. [1960] 8p.
Order from ATS $11.20 ATS-09M47G

Trans. of Phot[ographische] Korr[espondenz] (Austria) 1960, v. 96, no. 7, p. 99-104.

146,922

(Nuclear Physics--Instruments, TT, v. 3, no. 3)

61-12391

I. Radiation meters--Development
II. Title: Film dosimetry
I. Becker, K.
II. ATS-09M47G
III. Associated Technical Services, Inc., East Orange, N. J.

ATS-278-GJ

Office of Technical Services

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

R-3970-D
Physickal Methods for the Measurement of the Sharpness (Resolution) of Photographic Materials, by R. Muller.

GERMAN, per, Photographische Korrespondenz, Vol XCIX, No 5, 1963, pp 69-79.

*JPRS/Nat Bu Stand

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Adsorption of Components ofxfixing Soulutions
by Photographic Films, by W. Janicke
B. Futterer.
GERMAN, per, Photographische Korrespondenz, Vol XCIX,
No 7, 1963, pp 102-105.
TC-166

Apr 67 323,158

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Method for the Photographic Development of an Emulsion to a Desired Gradation, by H. Pflugbeil, H.Rohler.
GERMAN, per, Photogr Korr, Vol 103, No 3, 1967, pp 6-45
GB 131/T.1485

Sci -
Aug 67 336,672

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

TT-65-11944 Field 14E

Matejec, R.; Moisar, E.
EXPERIMENTS ON THE OXIDATION-REDUCTION ACTIVITY OF THE LATENT IMAGE. 15p, 11refs.
Order from SLA: $1.60 as TT-65-11944

Trans. of Photographische Korrespondenz (Austria) v100 n3 p39-45 1964.

TT-65-11944

I. Matejec, R.
II. Moisar, E.

MR 621

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Electrography [illegible]1963, by P. M. Cassiers.
GERMAN, per, Photographische Korrespondenz, Vol C,
1964, No 6, pp 99-102,'
ATS-43 R78G

Apr 67

323,15[illegible]5

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

The Use of Colour Film in the Study of Detonation, by H. Ahrens.

GERMAN, per, Photographie u Wissenschaft, Vol V, No 2-3, 1956, pp 29-36.

ASLIB-GB82

Sci

Jul 59

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Photography and Cinematography With X-Ray Flashes, by G. Thomer, 9 pp.

GERMAN, per, Photographie und Wissenschaft, Vol VII, No 1, 1958, pp 5-8.

AEC SCL-T-249

Sci - Phys

Jun 59

90,071

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Photographic Baryta Paper, by Dr Engr Fritz Wentzel, 6 pp.

GERMAN, per, Photo Rundschau, Vol LXII, 1925, p 56.

CIA/FDD XX-526
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Physics
Oct 58

IAC INTERNAL USE ONLY

75, 306

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Photographic Raw Paper, by Dr Engr Fritz Wentzel, 6 pp.

GERMAN, per. Photo Rundschau, Vol LXIV, 1927, pp 217-220.

CIA/FDD XX-527
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Physics
Oct 58

IAC INTERNAL USE ONLY

75, 307

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Designing and Calculation of Condenser Lenses, by G. Jaeckel.

GERMAN, per, Phototechnik u Wirtschaft, Vol V, No 11, 1954, pp 522-525.

ASLIB-GB131

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Aug 58

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Photography and Cinematography With X-Ray Flashes, by G. Thomer, 9/59.

GERMAN, per, Photographie und Wissenschaft, Vol VII, No 1, 1958, pp 5-8.

*AEC tr-7-249

Sci - Phys

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

The New Type of Film as a Universal Photographing Material, by Dr Walter Kross, 10 pp. UNCLASSIFIED

GERMAN, per, Photo-Technik und-Wirtschaft, No 4, 1958, pp 7, 8.

ATIC F-TS-9540/XXI

Sci - Phys
Sep 58

73, 595

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Rationally Operated Photographic Laboratory, by
Hans Westendorp, 34 pp,

GERMAN, per, Photo-Technik und -Wirtschaft, Jul 1958,
Berlin, pp 9-16.

ATIC F-TS-9698/V

Sci - Phys
Feb 59

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Photoelectric Cells Their Production and Characteristics, by Paul Goerlich, 7 pp.

GERMAN, per, Die Photozellen, 1951, pp 245-248.

ATIC F-TS-9473/III

Sci - Electronics
Jun 58

65, 641

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

The Absorption of P_2O_5 From Iron and Aluminum Phosphates and Their Complex Salts by Plants, by A. I. Achromeiko, 11 pp.

GERMAN, por, Phosphorsaure, Vol IV, 1934, pp 429-440.

S.L.A. Tr 1068/1956

39,501

Sci - Biology
Oct 56 CTS

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Crystal Structure and Physical Properties, by A. E. van Arkel, 14 pp.

GERMAN, per, Physica, Vol IV, 1924, pp 286-301.

AEC Tr-4800
FTD MCL-1434/1
9673508 182,519

Sci - Phys
Feb 62

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Modification Changes of Zircon and Hafnium, by C. Zwikker.

GERMAN, per, Physica, No 6, 1926, pp 361-365.

UCRL-Tr-387(L)

Sci. - Nat/Mat

Jun 63

731, 851

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

The Diffusion of Carbon in Tungsten, by C. Zwikker.
DUTCH, per, Physica, No 7e, 1927, pp 189-193.
*NTIS TT 72-53150

Aug 72

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

On the Diffusion of Th in W, by P. Clausing.
DUTCH, per, Physica, Vol 7, 1927, pp 193-198.
*CFSTI TT 70-59041

Sci-Chem
May 70

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

The Boundary Conditions for Concentration Equals Zero in Diffusion Problems, by W. De. Groot. DUTCH, per, Physica, Vol 8, 1928, pp 23-34. *CFSTI TT 70-59040

Sci- Phys
May 70

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

A Special Case of Chromatic Polarization, by [illegible] Morgan Hehn, 6 pp.

GERMAN, per, Physica, Vol VIII, No 1, 1928, pp 34-37.

SLA 58-36

Sci

Jul 59

91,350

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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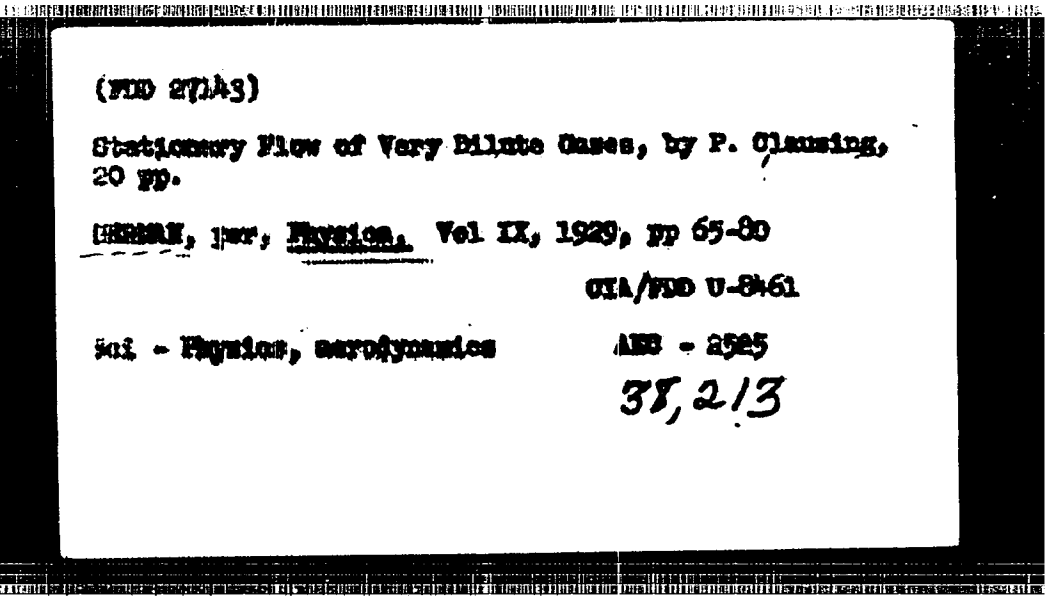

(FTD 2713)

Stationnary Flow of Very Dilute Gases, by P. Clauzing, 20 pp.

[illegible], Jnr, Physica, Vol IX, 1929, pp 65-80

CIA/FTD U-8461

Sci - Physics, aerodynamics AEC - 2525

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Calculation of the Field Intensity of Permanent Magnets, by W. Elenbaas, 16 pp.

[illegible], per, Physica, Vol X, No 9, 1930, pp 273-286.

SLA Tr 57-883

Sci - Electricity, Physics 52,370

Sep 57

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

R-4311-D

Light Emission in a Gas Discharge, by W. DeGroot.

GERMAN, per, Physica, 1933, pp 28-34.

*JPRS/Air Force

Sci
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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

The Assignment of Wave Functions and Eigenvalues to the Individual Electrons of an Atom, by T. Koopmans.
GERMAN, per, Physica, Vol 1, 1934, pp 104-113.
Dept of Navy/NRL Tr No 1128

[redacted]
Sci-Electr
Jan 68 347,634

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Druyvesteyn, M. J.
SEARCH FOR A THEORY OF THE POSITIVE COLUMN WITH MOVING STRIATIONS. [1963] 9p. 7 refs.
Order from SLA $1.10 63-14460

Trans. of Physica (Netherlands) 1934, v. 1, p. 273-280.

DESCRIPTORS: *Gas discharges, *Glow discharges, Theory, Equations, Electrons, Diffusion, *Discharge tubes, Low pressure research, *Helium group gases, Neon, *Plasma physics.

The equations of the homogeneous positive column in noble gases are enlarged, so that they can be used for the positive column with moving striations. An approximate solution of these equations is given, which resembles the moving striations. The order of magnitude of the distance of the striations and of the velocity in Neon is correctly given by the calculation. (Author)

63-14460

1. Druyvesteyn, J. J.

(Physics-- Electronics, TT, v. 10, no. 6)
Office of Technical Services

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

R-4311-D

Excitation and Ionization of Mercury Atoms in an Inert Gas-Mercury Column, by F. M. Penning.

GERMAN, per, Physica, 1934, pp 763-769.

*JPRS/Air Force

Sci
Aug 64

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Druyvesteyn, M. J.
REMARKS CONCERNING TWO EARLIER PAPERS OF ELECTRON DIFFUSION. [1963] 4p. 5 refs.
Order from SLA $1.10 63-14459

Trans. of Physica (Netherlands) 1934, v. 1, p. 1003-1006.

DESCRIPTORS: *Gas discharges, *Glow discharges, Theory, Equations, Corrections, Electrons, Diffusion, *Discharge tubes, Low pressure research, *Helium group gases, *Plasma physics.

(Physics--Electronics, TT, v. 10, no. 6)

63-14459

I. Druyvesteyn, M. J.

SLA

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Collimation of Concave Gratings at Glancing Incidence, by G. Rathenau, P. K. Peerlkamp. GERMAN, per, Physica , Vol 2, 1935, pp 125-142. *NASA TT F-11,363

Sci-Phys
Jan 68

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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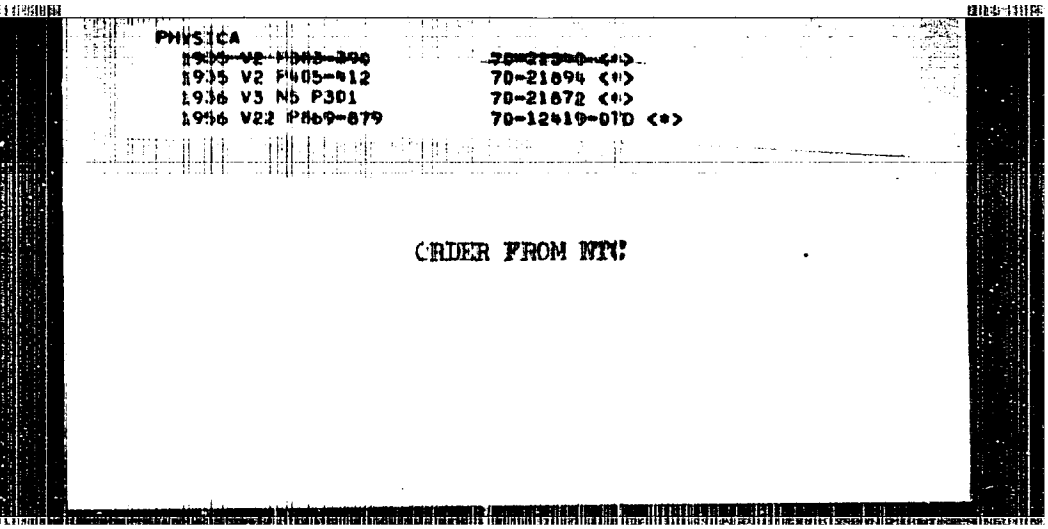

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Observations on Thermoelectric Force and Resistivity, by L. Nordheim, C. J. Corter, 9 pp.
GERMAN, per, Physica, Vol II, 1935, pp 383-390.
Dept Navy Tr 4100/NRL No. 1011

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Apr 65 278,237

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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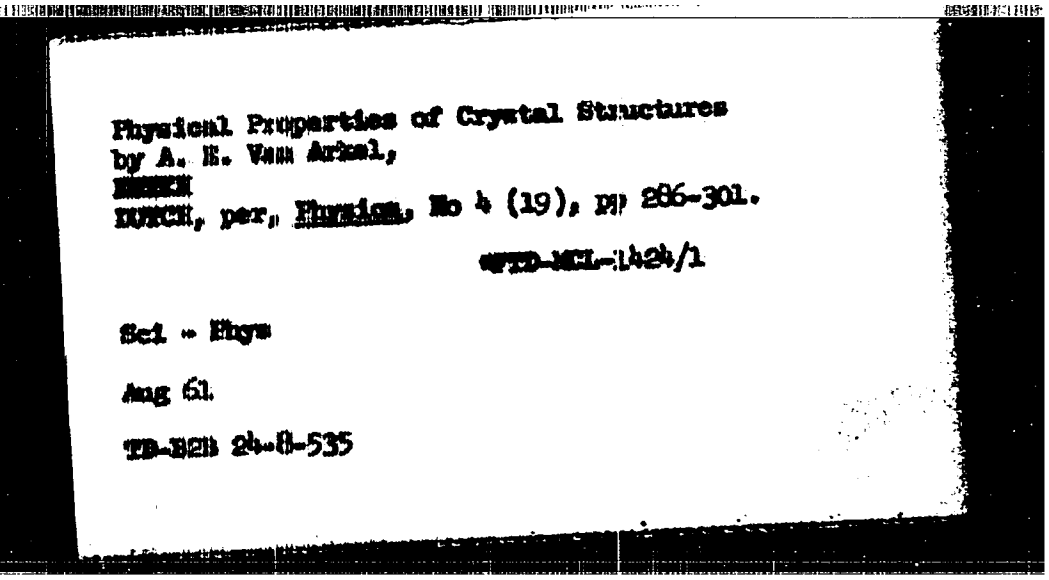

Physical Properties of Crystal Structures
by A. R. Von Artal,
[redacted]
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FTD-MCL-1424/1

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A Short Method for Determining the Saturation Current According to Jaffe's Theory of Column Ionisation, by H. Zanstra, 10 pp.

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9093439

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Investigation of the Quik Equilibrium of Liquid and Vapor in the Argon-Oxygen System, by Pauline Bourbo, Ivan Ischkin, 4 pp.

GERMAN, per, Physica, Vol III, 1936, pp 1067-1070.

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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A New Pressure Gage for Low Pressures, Particularly Pressures Between 10-3 and 10-5 Millimeters, by F. M. Penning, 8 pp.

GERMAN, per, Physica, Vol IV, Series 2, 1937, pp 71-75.

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A Neutron Generating Tube Without Vacuum Pumps, by F. M. Penning, J. H. A. Moubis, 14 pp.

GERMAN, per., Physica, Vol IV, 1937, pp 1190-1199.

AEC UCRL-Trans-585(L)

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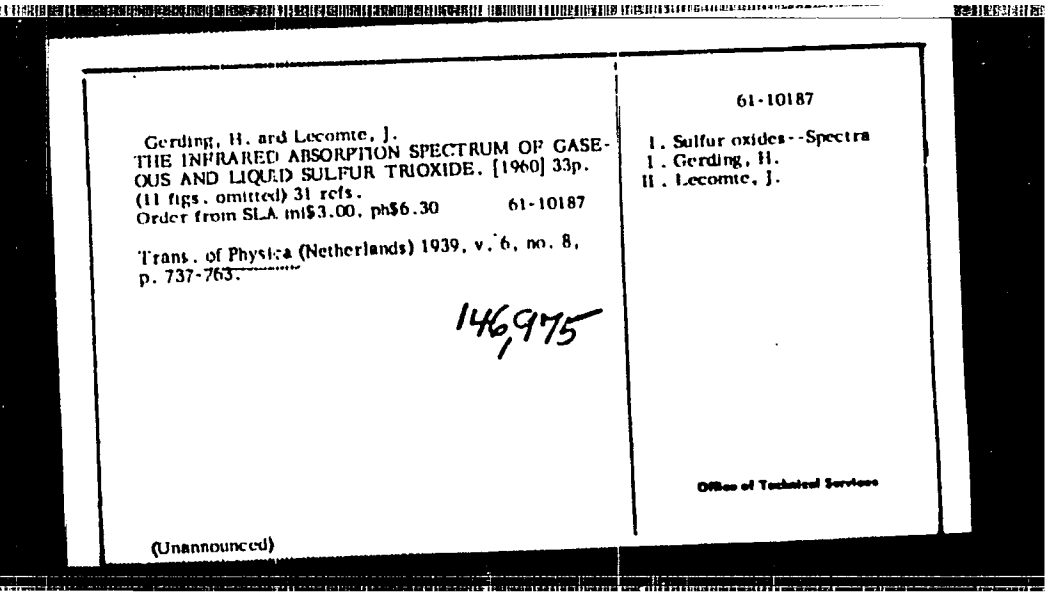

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(11 figs. omitted) 31 refs.
Order from SLA ml$3.00, ph$6.30 61-10187

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(Unannounced)

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I. Sulfur oxides--Spectra
I. Gerding, H.
II. Lecomte, J.

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The Forgotten Effect in the Theory of the Thermo-gravitational Method of Separation, by S. R. de Groot, W. Hoogenstraaten, C. J. Gorter

G E [illegible] /
[redacted],
[redacted], Jour. Physics, Vol IX, No 9, pp 923-924.

S.L.A. Tr Pool
Also NRL 110

Scientific - Physics
CTS/[redacted]

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Electron Emission and Conductivity of Alkaline Earth Oxides, by W. Albricht, 7 pp.

GERMAN, per, Physica, Vol XI, No 5, 1931, pp 146-149.

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Diffraction Theory of the Knife-Edge
Method and Its Improved Form, the Phase-
Contrast Method, by F. Zernike.
U. S. GOVERNMENT USE ONLY
GERMAN, per, Physica, Vol I, 1934,
pp 609-704. P 200095666
RSIC-505

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Methods for Compensating the Action of Different Kinds of Schottky Effect in Electron Tubes and Associated Circuits, by M. ~~M~~ J. O. Strutt, A. Van der Ziel, 26 pp.

GERMAN, per, Physica, Vol VIII, Jan 1941, pp 1-22.

SLA Tr 1784 Jan 1957

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Impedance Measurements on Gas Discharge Tubes, by C. J. D. M. Verhagen, 11 pp.

GERMAN, per, Physica, Vol VIII, No 3, 1941, pp 361-376. 90939-41

ACSIL Tr 1058

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

The Thermo-Gravitational Method of Separation Applied to the Case of an Aqueous Solution, by S. R. de Groot, C. J. Gorter, W. Hoogenstraaten

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~~DUTCH~~,

per, Physica, Vol X, 1943, pp 81-89.

S.L.A. Tr Pool
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Scientific - Physics
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14,186

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Measurement of the Electrical Resistance of Thin Films of Cu, Ag, and Pb, by A. A. Litterbeek, L. de Grove, 6 pp.

DUTCH, per, Physica, Vol XI, No 2, 1944, pp 78-90.

SLA 59-15283

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Kruithof, A. M. and Smit, J. A
THE APPLICABILITY OF SAHA'S EQUATION TO THE ELECTRICAL LIGHT ARC. Mar 60 [16]p.
14 refs. Trans. 76.
Order from OTS or SLA $1. 60 60-15637

Trans. of Physica (Netherlands) 1944, ser. 2, v. 11, no. 3, p. 129-143.

DESCRIPTORS: *Electric arcs, *Ionization.

In experiments with ac and dc arcs the degree of ionization of Sr and Ba in the central part of the arc was adequately described by Saha's equation

$$\frac{N_i N_e}{N_a} = \left(\frac{2\pi mk}{h^2}\right)^{3/2} \frac{2U_i(T)}{U_a(T)} T^{3/2} \exp(-X/kT).$$

where N_e, N_i, and N_a respectively represent the numbers of free electrons, univalent ions, and atoms of a given element per cubic centimeter; m is the mass of
(Chemistry--Physical, TT. v. 6, no. 1) (over)

60-15637

I. Title: Saha's equation
I. Kruithof, A. M.
II. Smit, J. A.
III. PA Trans-76
IV. Joint Publications Research Service, New York

AEC SLA-T-353

161568

Office of Technical Services

4-5-61

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Note on the Formalism of Quantized Fields,
by Jean Pirenne.
FRENCH, per, Physica, Vol 15, No 11-12,
1949, pp 1023-1034.
Dept of Navy APL/JHU T-2304

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

On the Statistical Thermodynamics of Binary Solutions, by I. Prigogine, and G. Garikian.

Full translation.

G e PHYS

~~Translated~~, par, Physica, No 16, 1950, pp 239-248.

AEC Tr 1210

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Application of Thermodynamics to Irreversible Phenomena With Internal Degrees of Freedom, by I. Prigogine, P. Mazur. FRENCH, per. Physica, Vol XIK, 1953, pp 241-254.
NASA TT F-10,167

U. S. GOVERNMENT USE ONLY
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Jul 66 306,545

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Appel, J. and Lautz, G.
SOME ELECTRICAL PROPERTIES OF THE SEMICONDUCTING TELLURIUM COMPOUNDS: In_2Te_3, CdTe, AND Ag_2Te (Über Einige Elektrische Eigenschaften der Halbleitenden Tellurverbindungen In_2Te_3, CdTe und Ag_2Te). [1962] [13]p. (foreign text included) 4 refs.
Order from SLA $1.60 62-18813

Trans. of Physica (Netherlands) 1954 [ser. 2] v. 2., no. 11, p. 1110-1114.

DESCRIPTORS: *Semiconductors, *Tellurium compounds, *Indium compounds, *Cadmium compounds, *Silver compounds, Tellurides, Electrical properties, Chemical bonds, Lattices.

Some electrical properties of these compounds are shown and discussed with the aid of the results of (Physics--Solid State, TT, v. 9, no. 9) (over)

62-18813

I. Appel, J.
II. Lautz, G.

Office of Technical Service

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

English Title Unknown, by G. Rathenau.
GERMAN, per, Physica, Vol 2, 1955, pp 125-143.
*NASA TT F-11,363

Oct 67

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Theory of the Autodyne Detector for Paramagnetic Resonance, by P. Bruin, F. M. Schimmel, 10 pp.

DUTCH, per, Physica, Vol XXI, 1955, pp 867-876.

SLA 58-591

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

4(SC-T-71-3005) 5SYMMETRY AND MICROWAVE SPECTRA OF POLYATOMIC PARAMAGNETIC CENTERS. 6Kneubuehl, Fritz K. 10Translated for Sandia Labs., Albuquerque, N. Mex., from 13Phys. Kondens. Mater.; 1: 410-47(1963). 1720 50p. 24Dep. NTIS.

26physics (solid-state); translations 27 20L

28MN-34 29P N&A

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Model of a Screw Dislocation in Phiezoelectric Crystals. Part I. General Theory. Electrical Field in the Absence of a Charge - Charge Distribution in the Absence of a Field, by L. Merten
EUROPEAN, per, Physik der Kondensierten Materie, Vol 2, 1964, pp 53-65
NTC 71-16493-20L

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Model of a Screw Dislocation in Piezoelectric Crystals. Part II. Electric Field and Charge Distribution for a Dislocation in an Intrinsic Semi-Conductor at Thermal Equilibrium, by
L. Merten
EUROPEAN, per, Physik der Kondensierten Materie,
Vol 2, 1964, pp 66-79
NTC 71-16492-20L

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

English title unknown, by von Otohiko Nomoto.
GERMAN, per, Phys. Math. Soc. Japan, Vol 24, 1942,
pp 613-639
NASA TT F 13994

ovt 71

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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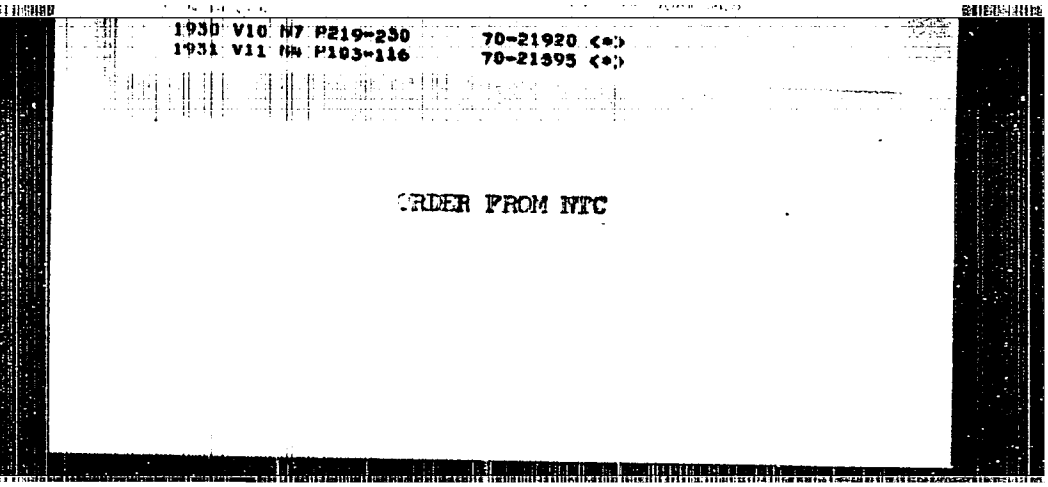

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Research on Some Physical Measurements of the Soil, by S. B. Hooghoudt, 10pp
FRENCH, per, Physique du Sol, 1934, pp 213-219
SIA TT-64-30297

Sci - Es
May 67

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

LB/G-3053 Uncl.

THE ELASTIC DISPLACEMENT FIELD OF SINGLE AND DOUBLE FORCES IN ANISOTROPIC MEDIA. Mann, E.; von Jan, R.; Seeger, A. Translated by N. J. Davren (Atomic Energy Research Establishment, Harwell, Eng.) from Phys. Status Solidi; 1: 17-29(1961). 18p.

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ND-34 NP RC

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Air Force 67-114

R-0298-D
15 May 1967

Über die elastischen Eigenschaften von Kristallgittern mit Wurtzitstruktur
By: E. Gutsche
From: Physica Status Solidi 1 (1961):30-36 (7 pp)

German - est for wds:

Please translate and type 1 original and 1 carbon copy.
Document can be cut.

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Measurement of the Volume Diffusion in Polycrystalline Zn, by W. Lange , et al
12 pp.
GERMAN, per, Physica Status Solidi, 1, 1961, pp. 50-61.
*CFSTI TT 70-58090
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Ni-Cu Diffusion in Ni-Cu Alloys, by W. Ruske.
GERMAN, per. Phys Stat Sol, No 1, 1961, pp K85-88.
*NBS TT 70-57497

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Concerning the Elastic Properties of Crystal Lattices of the Wurtzite Type. Part II. The Elastic Relationship of Wurtzite and Zincblende Lattices in a Model With Central Forces Between Adjacent and next nearest neighbors, by E. Gutsche, 23 p.
GERMAN, per, Physica Status Solidi, Berlin, Vol I, No 2, 1961, pp 147-159.
*Dept of Commerce
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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Goerlich, P., Karras, H., Koethe, A., and Kühne, K. THERMOLUMINESCENCE MEASUREMENTS IN CaF_2 CRYSTALS. [1963] 25p 34refs
Order from SLA $2.60 63-18168

Trans. of Physica Status Solidi (Germany) 1961, v. 1, p. 366-388.

DESCRIPTORS: *Calcium compounds, *Fluorides, *Thermoluminescence, *Luminescence, *Spectroscopy, Impurities, Discoloration, Yttrium, Samarium, Cerium, Europium, *Ytterbium, *Crystal lattice defects.

The thermoluminescence of three types of CaF_2 crystals was measured: natural crystals (found near Ilmenau); synthetic undoped crystals (prepared from natural material, and prepared from synthetic material of highest purity); synthetic doped crystals prepared from synthetic material of highest purity. For each crystal the spectral composition of the luminescence
(Physics--Solid State, TT, v. 10, no. 10) (over)

63-18168

I. Goerlich, P.
II. Karras, H.
III. Koethe, A.
IV. Kühne, K.

Office of Technical Services

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

The Theory of Surface States and Quantum Chemistry of the Crystal Surface, by J. Koutecky.
GERMAN, per, Physica Status Solidi,
Vol 1, 1961, pp 554-584
NTC 72-11923-07D
Nasa TT F- 11,592
Government use only

June 72

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Correction of Lattice Imperfections in Freshly Precipitated CdS Layers, by H. Berger. 25 pp.
GOVERNMENT USE ONLY
GERMAN, per, Phys. Status Solidi, Vol 1, No 7, 1961, pp 739-757.
NASA TT F 13,121

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Theory of the Photoelectron Emission by Metals
I. Calculation of the External Energy Angular
Distribution II. Distributions of the Photoelectron
by Heinz Puff, 38 pp.

GERMAN, per, Physica Status Solidi, Vol I, 1961,
pp 636-649, 704-715, 9206091.

AEC/UCRL Tr 907 (L)

Sci - Phys

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Surface Structures and Crystal Structure Defects in Electron-Microscopic Image Investigated by Means of NACl Crystals, by H. Bethge, Part I, 30 pp.
GERMAN, per, Physica Status Solidi, Vol II, No 1, 1962, pp 1-27.
Dept of Navy Tr No 4770/NRL Tr No 1059

Sci-Phys
Jun 66 302,199

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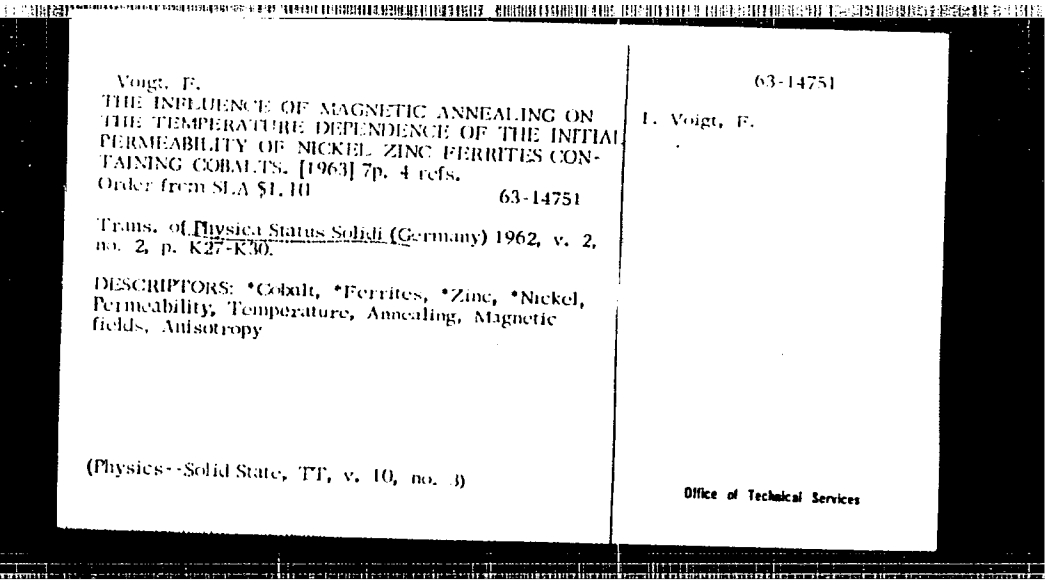

Voigt, F.
THE INFLUENCE OF MAGNETIC ANNEALING ON THE TEMPERATURE DEPENDENCE OF THE INITIAL PERMEABILITY OF NICKEL ZINC FERRITES CONTAINING COBALTS. [1963] 7p. 4 refs.
Order from SLA $1.10 63-14751

Trans. of Physica Status Solidi (Germany) 1962, v. 2, no. 2, p. K27-K30.

DESCRIPTORS: *Cobalt, *Ferrites, *Zinc, *Nickel, Permeability, Temperature, Annealing, Magnetic fields, Anisotropy

(Physics--Solid State, TT, v. 10, no. 3)

63-14751

I. Voigt, F.

Office of Technical Services

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

The Lowest Characteristic Energy Loss of 25 kev Electrons as a Function of the Layer Thickness During Irradiation of Thin Ag-Layers, by A. Otto, W. Steinmann, 6 pp.

GERMAN, per, Physica Status Solidi, ~~Nuov~~, Vol II, 1962, pp K187-191.

ABC-tr-5876

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Sep 63

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

Krotova, M. D. and Pleskov, Yu. V.
SURFACE CONDUCTANCE AND POTENTIAL DISTRIBUTION AT THE GERMANIUM-ELECTROLYTE INTERFACE. [1962] 9p. 10 refs.
Order from SLA $1.10 62-20229

Trans. of Physica Status Solidi (Germany) 1962, v. 2, no. 4, p. 411-416.

DESCRIPTORS: *Germanium, Electrolytes, *Semiconductors, Surfaces, Conductivity.

Potential distribution at the germanium - NaOH solution interface was investigated. The contribution of the potential drop through the space charge region in the semiconductor Y to the total potential drop at the interface was determined by means of surface conductance measurements. The change in the potential drop in the ionic part of the electric double layer depending on the
(Physics--Solid State, TT, v. 9, no. 10) (over)

62-20229

I. Krotova, M. D.
II. Pleskov, Yu. V.

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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Elastic Constants of Quasi-Isotropic Poly-Crystal Aggregates, by G. Kneer
GERMAN, per, Physica Status Solidi, Vol 3, 1963, pp K331-K335
NTC 16883-20L

Feb 72

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

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The Influence of Defects on the Lattice Thermal Conductivity at Low Temperatures, by E. Brose, 73 pp.

FRENCH, per, Physica Status Solide, Vol II, No 5, 1962, pp 480-516. 9207161

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Sci - Phys

May 63

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APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

APPROVED FOR RELEASE: Monday, September 23, 2002 CIA-RDP84-00581R000401210034-3

The Stability and Energy of Stacking Faults in Metals and Alloys, by G. Cajzek.
GERMAN, per, Phys Stat Sol, No 2, 1962, pp 558-565.
*NBS TT 70-57502

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